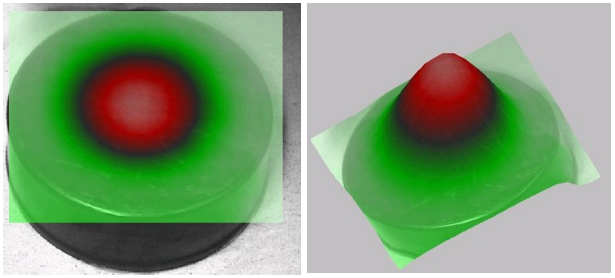
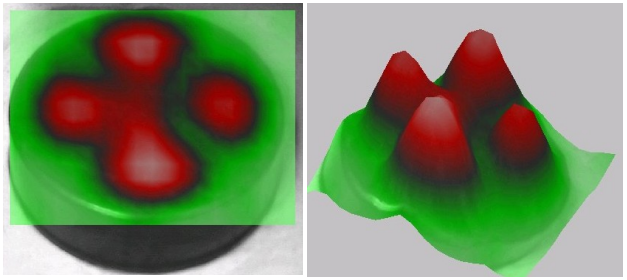
Seismic Detection of Buried Landmines

MINE VIBRATION MODES

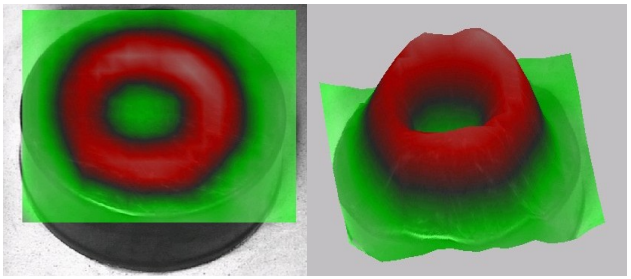
182 Hz



420 Hz



650 Hz



Objective

Investigate soil-mine seismic energy interaction

Approach_

- Structural dynamics of mines
- Mechanisms of vibration excitation
- Projection of mine vibration modes to soil surface
- Nonlinear interactions at the soil mine interface

Payoff

Quantification of the limits and variability of vibration interaction between mine and soil

Status

New Start

Principal Investigator

Stevens Institute of Technology